

Tab T. “Means for generating an order list that includes at least one matching item selected by said means for searching”

Claims using this term: claim 1 of the '172 patent

Lawson means-plus-function term 4

The structure corresponding to this term is linked to portions of the specification of the '172 patent beginning at 10:6 and ending at 12:33, as shown below.

Lawson's Proposed Construction

Function: Generating an order list that includes at least one matching item selected by said means for searching.

Means: One means for generating an order list is disclosed:

Structure. A software means that utilizes catalog search program (50 or 250) and shell program (52 or 252) and consists of the following steps:

- a. displaying via catalog search program (50 or 250) a hit list (47) of search results;
- b. selecting one or more items to be requisitioned; and
- c. generating an order list (48) in shell (52 or 252) and catalog search program (50 or 250) containing data relating to selected items (e.g., vendor name, product description, list price).

Tab T. “Means for generating an order list that includes at least one matching item selected by said means for searching”

Function

<u>Lawson’s Proposed Definition</u>	<u>Lawson’s Proposed Definition</u>
<p><u>Function:</u> Generating an order list that includes at least one matching item selected by said means for searching.</p>	<p>“means for generating an order list that includes at least 65 one matching item selected by said means for searching” (’172 patent, claim 1)</p> <p>1. An electronic sourcing system comprising: a database containing data relating to items associated with at least two vendors maintained so that selected portions of the database may be searched separately; means for entering product information that at least partially describes at least one desired item; means for searching for matching items that match the entered product information in the selected portions of the database; means for generating an order list that includes at least one matching item selected by said means for searching; means for building a requisition that uses data obtained from said database relating to selected matching items on said order list; means for processing said requisition to generate purchase orders for said selected matching items. (’172 patent, claim 1)</p>

APPENDIX VIII-continued									
RICREQ11			FISHER SCIENTIFIC RIMS REQUISITION MANAGEMENT SCREEN					DATE: 07-29-94 TIME: 14:54:22	
003 13246818F			1	EA	03		0.00	0.00	
DESC:					QTY AVAIL:	0	LOC:	FSHR	WHSE: EDC
004 A181-06			1	EA	06		100.00	100.00	
DESC: ACETONE					QTY AVAIL:	0	LOC:		WHSE: JIT
JIT BACKORDER WILL OCCUR									
005									
DESC:					QTY AVAIL:	0	LOC:		WHSE:
RESPONSE: KEYS(S):									
I ITEM(S) PROCESSED									
+ F3:EXIT F6:SOURCE F7:BKWD: F8:FWD F9:NEW ITM F10:NONCAT F11:CATALOG F12:CNCL									
1B V123									

APPENDIX IX									
RICPOMP1			FISHER SCIENTIFIC RIMS REQUISITION MANAGEMENT SCREEN					DATE: 08-03-94 TIME: 07:44:13	
COMP ID : 001			REQ-NBR : PO NBR 001						
ACCT NBR : 363690 006			REL-NBR :						
ORDER NBR :			PICKLIST REVIEWED :						
SERVICE : 0.00			ORDER:		0.00 FREIGHT:				
CARRIER :									
O LINE	PART		QTY	UOM	PRD	UNIT PRICE	SERVICE EXT PRICE	LOC	STAT
001 A181			1	EA	03	35.30	0.00	35.30	DEL S
	ACETONE CERTIFIED ACS			1L		QTY AVAIL:	1		QTY REC: 0
002 02540K			1	PK	01	32.70	0.00	32.70	JIT S
	BEAKER GRIFFIN 250 ML			12/9		QTY AVAIL:	49		QTY REC: 0
003 13246818F			1	EA	03	3495.00	0.00	3495.00	EDC S
	PROGRAMMABLE OVEN					QTY AVAIL:	0		QTY REC: 0
004 A181-06			1	EA	06	100.00	0.00	100.00	JIT S
	ACETONE					QTY AVAIL:	0		QTY REC: 0
RESPONSE: KEY(S):									
+ F3:EXIT F6:ACCEPT F7:BKWD F8:FWD F9:PRINT ACK F11:M/B ERRORS F12 DELETE									
1B V123									

APPENDIX X		
*** REQUISITION MANAGEMENT SCREEN ***		
ACCT NBR: 218848 002 REQ NBR: TEST NEW ONE		
COMP: 001	REL NBR:	
ELECTRONIC SOURCING MESSAGES		
LINE NUMBER	001	PART NUMBER 53610
PART ADDED SUCCESSFULLY		
LINE NUMBER	001	PART NUMBER 53610
REPLACEMENT WAS MADE FOR PRIOR PART: S100-06		
LINE NUMBER	001	PART NUMBER 53610
VENDOR CHANGED FROM: VN00000001		
LINE NUMBER	002	PART NUMBER 53620
PART ADDED SUCCESSFULLY		
LINE NUMBER	003	PART NUMBER 53650
PART ADDED SUCCESSFULLY		
F6:RETURN	F7:BACKWARD	F8:FORWARD

We claim:

1. An electronic sourcing system comprising:
a database containing data relating to items associated with at least two vendors maintained so that selected portions of the database may be searched separately;
means for entering product information that at least partially describes at least one desired item;
means for searching for matching items that match the entered product information in the selected portions of the database;

means for generating an order list that includes at least one matching item selected by said means for searching;

- means for building a requisition that uses data obtained from said database relating to selected matching items on said order list;
means for processing said requisition to generate purchase orders for said selected matching items.
2. The electronic sourcing system according to claim 1, wherein the means for searching comprises:
means for searching the database for segments of data relating to items associated with a vendor that contain vendor items that match the product information for said at least one desired item;
means for generating a hit list of such vendor segments; and
means for selectively viewing the vendor segments identified for said hit list, and
wherein the means for generating an order list comprises means for selecting desired items from a vendor segment identified by said hit list.
3. The electronic sourcing system according to claim 1, wherein the means for entering product information fully describes at least one desired item.
4. The electronic sourcing system according to claim 1, further comprising means for determining the applicable price of a selected matching item.
5. The electronic sourcing system according to claim 1, further comprising means for determining whether a selected matching item is available in inventory.

Tab T. “Means for generating an order list that includes at least one matching item selected by said means for searching”

Means: Structure

<u>Lawson’s Proposed Definition</u>	<u>Lawson’s Proposed Definition</u>
<u>Means:</u> One means for generating an order list is disclosed:	
<p><u>Structure.</u></p> <p>A software means that utilizes catalog search program (50 or 250) and shell program (52 or 252) and consists of the following steps:</p>	<p>Figure 1A shows the shell program (52) and catalog search program TV/2 (52):</p> <p style="text-align: right;">FIG. 1A</p> <p>(’172 patent, Fig. 1A)</p> <p>Figure 1B shows shell program (252) and search program (250):</p>

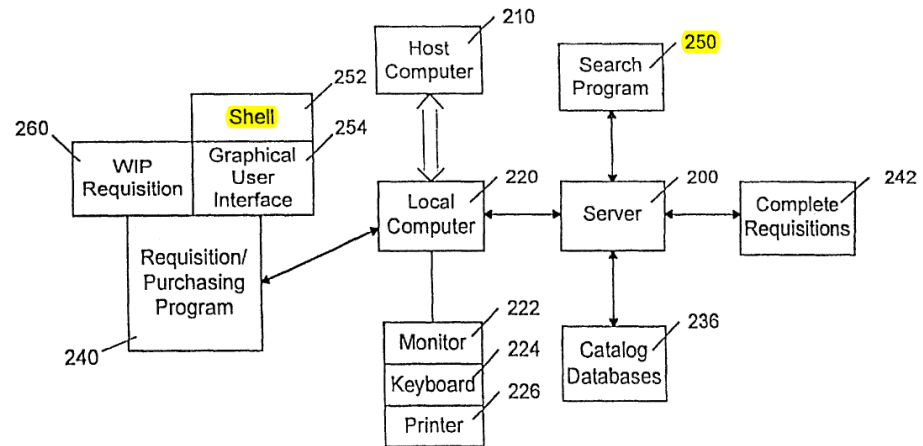


FIG. 1B

('172 patent, Fig. 1B)

“When in search program 50, particular items selected can be added to an Order List 48 pending in Shell 52 and search program 50. When the Ordering portion of catalog text is viewed (as in **Appendix V**), particular items can be selected so as to be added to the Order List 48 by double clicking on the highlighted catalog number (even if a different field was also highlighted as a result of a search of catalog database 36). The item is then added to an Order List 48 that is created in Shell 52 via a hypertext link. The items that are sent to the Order List 48 are collected and shown on the Items Selected screen of Shell 52. An example of an Items Selected screen of Shell 52 is shown in **Appendix VI**. The Items Selected screen depicts certain fields of Order List 48 that can be viewed and edited within search program 50.” ('172 patent, Detailed Description of the Invention, 11:32-45 (emphasis added))

APPENDIX V

(FSC1106)Fisher Isotemp 800 Series Programmable Ovens

Model	818F	838F
Inside D x W x H	16 x 12 x 16 (41 x 30 x 41 cm)	18 x 18 x 20 (46 x 46 x 51 cm)
Shp. Wt.	156 lb. (71 kg)	195 lb. (88 kg)
Electrical Requirements	230V 50/60Hz 11.3 Amps	230V 50/60Hz 19 Amps
Cat. No.	13-246-818F	13-246-838F
Each	3495.00	3995.00
Extra Shelves for 800 Series Ovens		
No-tip design. Move to any position in seconds. Full Depth Shelves: Chrome-Plated Steel		
Help Catalogs Search Order List Minimize Clear Prev Next Exit		

(’172 patent, Appendix V)

APPENDIX VI

ITEMS SELECTED

Part Number	Description	List Price
13246818F	ISOTEMP OVEN MDL818F 230V	3495.00
Help Cancel Delete Delete All Order Description		

(’683 patent, Appendix VI)

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can be used to bring up for viewing on monitor 22, or printing on printer 26, images and text from the catalog page on which the item selected is located. For example, as shown in Appendix III, page 1106 of the Fisher catalog has been selected. If the user double clicks on highlighted page 1106, the text shown in Appendix IV (and related images, not shown) would appear on monitor 22. On the sample screen shown in Appendix IV, the item that appears on page 1106 of the Fisher catalog relates to Fisher Isotemp 800 Series Programmable Ovens. Conventional scroll bars appearing on the screen (not shown in Appendix IV) enable the user to scroll through additional catalog information (text and/or images) not yet displayed on the screen. An example of such additional textual information is depicted on the screen shown in Appendix V.

On the screen of Appendix V, the vendor distributor's catalog number ("Cat. No.") 13-246-818F is highlighted. The catalog number of an item normally appears in blue in a screen such as Appendix V. This blue lettering is used for catalog numbers, trademarks, footnotes and other entries for which database 36 contains additional information or cross-references (called hyperlinks). When a search is conducted and the catalog segments of the resultant hit list are reviewed, the text corresponding to the search parameter is highlighted in red. Thus, in Appendix V, catalog number 13-246-818F (identified in the search) appears in red, while catalog number 13-246-838F and the trademark Isotemp each appear in blue. A word, vendor part number or catalog number located by the search will appear red, even if that word or number did not have an associated hyperlink (and thus is not normally blue).

When in search program 50, particular items selected can be added to an Order List 48 pending in Shell 52 and search program 50. When the Ordering portion of catalog text is viewed (as in Appendix V), particular items can be selected so as to be added to the Order List 48 by double clicking on the highlighted catalog number (even if a different field was also highlighted as a result of a search of catalog database 36). The item is then added to an Order List 48 that is created in Shell 52 via a hypertext link. The items that are sent to the Order List 48 are collected and shown on the Items Selected screen of Shell 52. An example of an Items Selected screen of Shell 52 is shown in Appendix VI. The Items Selected screen depicts certain fields of Order List 48 that can be viewed and edited within search program 50. For example, Shell 52 permits the user via a pop-up window (not shown) to select units, e.g. pack or case, and quantity to be ordered, e.g. two packs. Alternatively, the data in these fields can default to one of the smallest unit and the units can be changed when the order is reviewed in REQI program 44A. Additional fields on the same items are also present in memory at this stage. Upon clicking on "Order" when the Items Selected screen (Appendix VI) is viewed, many or all of these fields on the items in the Order List are transmitted back to REQI program 44A (via the programs of interface 60 shown in FIG. 2) to be added to the pending Requisition Item Table 46. The sample Items Selected screen shown in Appendix VI includes the Isotemp Oven with catalog number 1324818F that was located as a result of the search for all items in catalog database 36 that match the part number 13246818F that was entered in the STOCK NBR field of REQI program 44A and its associated Requisition Management data screen 110 of Fisher RIMS system 40.

The following fields are transferred to Order List 48 created in TV/2 search program 50: Vendor name, vendor number, vendor part (catalog) number, product description, list price, page number, quantity, unit and catalog text.

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However, not all of these fields are viewed on the Items Selected screen.

If more than one item on Requisition Management data screen 110 had been marked with an "S," the process described above is repeated.

If the user desires to do additional searching in catalog database 36 that is not connected to catalog or other items that have been listed on Requisition Management data screen 110 of Fisher RIMS system 40, he or she can click the box on footer bar of Shell 52 that is labelled "Search." Then, a Search screen comes up on monitor 22 of local computer 20. An exemplary Search screen is shown in Appendix VII. In this screen, the usual footer bar is visible in the background, but is not active.

Using the Search screen, a user can search catalog database 36 by page, text description, part number (where the user has the further option to search by Fisher part number, for example if Fisher is to be the desired vendor), Vendor part number, vendor name (for vendors other than Fisher), or bulletin. Stock numbers specific to the customer can also be present in catalog database 36 and searched using the screen of Appendix VII. "Bulletin" refers to an additional vendor publication with detailed product information that may not be included in a vendor catalog. Searching for information contained in bulletins may be done by bulletin number, but only if bulletins have been made a part of catalog database 36. For purposes of this disclosure, bulletins when included in a catalog database are considered a type of catalog.

After the user has entered the field to be searched on the Search Screen, the user clicks on the "SEARCH" box near the bottom of the Search Screen. A Hit List 47 indicating all items from catalog database 36 that match the search field that was entered on the Search Screen then is generated. Then, in a manner similar to that described previously, the user can scroll through the Hit List 47 and double click on the catalog page or panel desired. The user may then also view the detailed information located on the catalog page that was selected from the Hit List 47. During the search, the user may also add additional items to the Order List 48 being built in Shell 52 if desired, whether those additional items had been selected from the Hit List 47 or not.

The Order List that the user has built in Shell 52 is maintained on the Items Selected screen, shown in Appendix VI. From the Items Selected screen, the user can cancel the order by clicking on the "Cancel" box at the bottom of the screen, delete an item from the Order List 48 by moving the pointer bar to the item to be deleted and then clicking on the "Delete" box at the bottom of the screen, or delete all items by clicking on the "Delete All" box. The user can also view catalog text and images for a particular item by clicking on the "Description" box.

Once the user has completely built the Order List 48 within Shell 52 and TV/2 search program 50, he or she can transmit it to Fisher RIMS system 40. This is accomplished by clicking on the "Order" box at the bottom of the Items Selected screen to communicate the completed Order List 48 to Fisher RIMS system 40.

The user may have selected no items, one item or several items from the catalogs contained in catalog database 36 by using TV/2 search program 50. If no items have been selected, the original items that were entered on Requisition Item Table 46 of Requisition Management data screen 110 will remain on that screen and will continue to be processed by Fisher RIMS system 40. If one or several desired catalog items were selected in TV/2 search program 50, the first item selected will replace the original item on Requisition Item Table 46 of Requisition Management data screen 110. Addi-

Tab T. “Means for generating an order list that includes at least one matching item selected by said means for searching”

Means: Structure

<u>Lawson’s Proposed Definition</u>	<u>Lawson’s Proposed Definition</u>
<p><u>Part a.</u> displaying via catalog search program (50 or 250) a hit list (47) of search results;</p>	<p>“The user would see on monitor 22 of local computer 20 a Hit List 47 screen representing limited data about all matching catalog items that were located in catalog database 36 as a result of the search. A sample Hit List 47 produced from a search initiated when the entry ‘OVENS’ is received as the description or keyword by search program 50 from Requisition Item Table 46 is shown in Appendix III.” (’172 patent, Detailed Description of the Invention, 9:42-48 (emphasis added))</p> <hr/> <p style="text-align: center;">APPENDIX III</p> <hr/> <p style="margin-left: 40px;">ovens General (1106)Fisher Isotemp 800 Series Programmable Ovens (1107)Isotemp 700 Series Deluxe Lab Ovens (1108)Isotemp 600 Standard Lab Ovens (1109)Fisher Isotemp 500 Series Economy Lab Ovens (1110)Gravity Convection Ovens (1111)Utility Ovens (1112)Mechanical Convection Ovens with Electronic Temperature (1113)General-Purpose Ovens (1114)Heavy Duty Deluxe Ovens (1116)Large Capacity Model 2882A (1117)Standard Capacity Model 281A (1118)Fisher Models 280 and 285 Vacuum Ovens (1119)NAPCO Vacuum Ovens</p> <hr/> <p style="margin-left: 40px;">Help Catalogs Search Order List Minimize Clear Prev Next Exit</p> <hr/> <p>(’172 patent, Appendix III)</p> <p>“ . . . perform a keyword, catalog number or other subject search and generate a Hit List of pages (panels) from both catalogs where the searched-for items were found.” (’172 patent, Detailed Description of the Invention, 10:6-8 (emphasis added))</p> <p>“A Hit List 47 indicating all items from catalog database 36 that match the search field 30 that was entered on the Search Screen then is generated.” (’172 patent, Detailed Description of the Invention, 12:31-33)</p>

be requisitioned up to twenty desired catalog items contained in catalog database 36 may be sent to REQI program 44A and its associated Requisition Management data screen 110 of Fisher RIMS system 40. If a user chooses to terminate the sourcing process, ESRC program 70 would return to REQI program 44A and its associated Requisition Management data screen 110 without processing any of the records.

ESCP program 80 links with Shell 52 and TV/2 search program 50 via DDE LINK 90. Shell 52 and TV/2 search program 50 search in catalog database 36 for the item or items desired to be requisitioned that has or have been passed from ESRC program 70 to ESCP program 80. Catalog database 36 contains the following fields: vendor name, vendor number, vendor part (catalog) number, product description, list price, page number, quantity, unit, catalog text, and catalog images. Shell 52 and TV/2 search program 50 may, if desired, search the keyword field or any other field shown in Appendix VII. However, not all fields may appear on the monitor 22 of local computer 20, although they are stored in memory.

After the user has pressed the F11 key from Requisition Management data screen 110 and control has been passed from REQI program 44A to Shell 52 and TV/2 search program 50, monitor 22 of local computer 20 will show a footer bar representative of Shell 52 at all times that the user is in the TV/2 search program 50. The footer bar, which also includes appropriate icons, is used to make choices within Shell 52. A sample of the footer bar (without the icons) representing Shell 52 is shown at the base of Appendices III-VII. In the screens of Appendices III-VI, this footer bar is active to select functions. In the screen of Appendix VII, this footer bar is in the background and another footer bar is used to select functions.

If the user has marked an item on Requisition Management data screen 110 with the designation "S," the entered data at least partially describing that item will be sent to Shell 52 and TV/2 search program 50A in the manner described above. TV/2 search program 50 will search catalog database 36 for all items that match the search field sent over from REQI program 44A and Requisition Management data screen 110. When a search is performed in Shell 52 and search program 50, a Hit List 47 is produced, as indicated in FIG. 1C. The user would see on monitor 22 of local computer 20 a Hit List 47 screen representing limited data about all matching catalog items that were located in catalog database 36 as a result of the search. A sample Hit List 47 produced from a search initiated when the entry "OVENS" is received as the description or keyword by search program 50 from Requisition Item Table 46 is shown in Appendix III. Similar Hit Lists 47 are produced when various searches are performed from the Search Input screen shown in Appendix VII. When a Hit List 47 is depicted on monitor 22, the underlying catalog text and pictures (in either partial or complete form) are typically collected in a memory location for rapid viewing, printing or other use.

When multiple catalogs are present in catalog database 36, search program 50 contains a function associated with the catalog symbol of the footer bar and screen window (not shown) for selecting catalogs to be searched. For example, the following choices might be available:

1. Fisher General Catalog 93-94;
2. Fairmont Supplies Catalog;
3. NIST Standards Catalog; and
4. Promega Biological Research Products Catalog.

Fairmont and NIST catalogs list products not in the Fisher General Catalog, but many of the products listed in the

Promega catalog are also listed in the Fisher General Catalog (identified by corresponding Fisher catalog numbers). If searching for a molecular biology product, the user would select the Fisher and Promega catalogs. TV/2 search program 50 would then concatenate those two catalogs to perform a keyword, catalog number or other subject search and generate a Hit List of pages (panels) from both catalogs where the searched-for items were found. Similarly, the user might select the Fisher and NIST catalogs when searching for quality control standards or might select the Fisher and Fairmont catalogs when searching for supplies.

If the search is initiated from requisition/purchasing program 40, for example from the Requisition Management data screen 110 of the Fisher RIMS system, then the catalogs searched can be determined by the information provided. If, for example, Promega is indicated as the desired requisition item vendor, interface 60 would direct TV/2 search program 50 to search the Fisher and Fairmont catalogs. If no catalog delimiting information is entered for the item desired to be requisitioned, interface 60 would be set up to search only the Fisher catalog or, alternatively, to search all catalogs in catalog database 36.

Once Hit List 47 has been created by TV/2 search program 50, the user can view it and select particular ones of the located catalog items for Order List 48 that is being created in Shell 52, as shown in FIG. 1C. For example, a search for "Eco RI," a restriction enzyme, may have uncovered five entries in the Promega catalog (identified by Promega catalog numbers R6011, R6012, R6013, R6015 and R401) and five entries in the Fisher catalog (identified by Fisher catalog numbers PRR6011, PRR6012, PRR6013, PRR6015 and PRR4014). If the user selected PRR6012 from the Fisher catalog, Fisher catalog number PRR6012 would be added as an entry to the Items Selected screen, with VN0000001 (identifying the vendor as distributor Fisher) accompanying it in the Order List 48. If the user instead selected the item identified by catalog number R6012 from the Promega catalog, then Promega catalog number R6012 would be added as an entry to the Items Selected screen, with VN00005860 (identifying the vendor as Promega) accompanying it in the Order List. In either case, the information transmitted to REQI program 44A of Fisher RIMS system 40 would also include description, list price and other information taken from the catalog database from which the selection was made. When the resultant requisition is sourced, however (as described below), Distributor's mainframe host computer 10 would recognize the entry for the item from vendor Promega's catalog (R6012, 00005860) as corresponding to that same item available from Fisher's catalog (PRR6012, 00000001). The system thus would transmit back the Customer's contract price and availability for corresponding item PRR6012 as a type 03 (regular Distributor) product available from one of distributor's inventory locations. A purchase order then would be generated for this corresponding Distributor item as further described below.

By contrast, an item selected from the Fairmont catalog would be transferred to Fisher RIMS system 40 with the vendor number for Fairmont, and would be recognized during inventory sourcing as either a type 07 product (that Distributor orders from Fairmont) or as a type 05 item (that customer orders from Fairmont as an Administrative Purchase). In either of these two cases, a purchase order would be generated for an item, corresponding to a desired catalog item, that is identified by the same Fairmont catalog number that was requisitioned.

After the desired item has been selected from the Hit List 47 by double clicking on that item TV/2 search program 50

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can be used to bring up for viewing on monitor 22, or printing on printer 26, images and text from the catalog page on which the item selected is located. For example, as shown in Appendix III, page 1106 of the Fisher catalog has been selected. If the user double clicks on highlighted page 1106, the text shown in Appendix IV (and related images, not shown) would appear on monitor 22. On the sample screen shown in Appendix IV, the item that appears on page 1106 of the Fisher catalog relates to Fisher Isotemp 800 Series Programmable Ovens. Conventional scroll bars appearing on the screen (not shown in Appendix IV) enable the user to scroll through additional catalog information (text and/or images) not yet displayed on the screen. An example of such additional textual information is depicted on the screen shown in Appendix V.

On the screen of Appendix V, the vendor distributor's catalog number ("Cat. No.") 13-246-818F is highlighted. The catalog number of an item normally appears in blue in a screen such as Appendix V. This blue lettering is used for catalog numbers, trademarks, footnotes and other entries for which database 36 contains additional information or cross-references (called hyperlinks). When a search is conducted and the catalog segments of the resultant hit list are reviewed, the text corresponding to the search parameter is highlighted in red. Thus, in Appendix V, catalog number 13-246-818F (identified in the search) appears in red, while catalog number 13-246-838F and the trademark Isotemp each appear in blue. A word, vendor part number or catalog number located by the search will appear red, even if that word or number did not have an associated hyperlink (and thus is not normally blue).

When in search program 50, particular items selected can be added to an Order List 48 pending in Shell 52 and search program 50. When the Ordering portion of catalog text is viewed (as in Appendix V), particular items can be selected so as to be added to the Order List 48 by double clicking on the highlighted catalog number (even if a different field was also highlighted as a result of a search of catalog database 36). The item is then added to an Order List 48 that is created in Shell 52 via a hypertext link. The items that are sent to the Order List 48 are collected and shown on the Items Selected screen of Shell 52. An example of an Items Selected screen of Shell 52 is shown in Appendix VI. The Items Selected screen depicts certain fields of Order List 48 that can be viewed and edited within search program 50. For example, Shell 52 permits the user via a pop-up window (not shown) to select units, e.g. pack or case, and quantity to be ordered, e.g. two packs. Alternatively, the data in these fields can default to one of the smallest unit and the units can be changed when the order is reviewed in REQI program 44A. Additional fields on the same items are also present in memory at this stage. Upon clicking on "Order" when the Items Selected screen (Appendix VI) is viewed, many or all of these fields on the items in the Order List are transmitted back to REQI program 44A (via the programs of interface 60 shown in FIG. 2) to be added to the pending Requisition Item Table 46. The sample Items Selected screen shown in Appendix VI includes the Isotemp Oven with catalog number 1324818F that was located as a result of the search for all items in catalog database 36 that match the part number 13246818F that was entered in the STOCK NBR field of REQI program 44A and its associated Requisition Management data screen 110 of Fisher RIMS system 40.

The following fields are transferred to Order List 48 created in TV/2 search program 50: Vendor name, vendor number, vendor part (catalog) number, product description, list price, page number, quantity, unit and catalog text.

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However, not all of these fields are viewed on the Items Selected screen.

If more than one item on Requisition Management data screen 110 had been marked with an "S," the process described above is repeated.

If the user desires to do additional searching in catalog database 36 that is not connected to catalog or other items that have been listed on Requisition Management data screen 110 of Fisher RIMS system 40, he or she can click the box on footer bar of Shell 52 that is labelled "Search." Then, a Search screen comes up on monitor 22 of local computer 20. An exemplary Search screen is shown in Appendix VII. In this screen, the usual footer bar is visible in the background, but is not active.

Using the Search screen, a user can search catalog database 36 by page, text description, part number (where the user has the further option to search by Fisher part number, for example if Fisher is to be the desired vendor), Vendor part number, vendor name (for vendors other than Fisher), or bulletin. Stock numbers specific to the customer can also be present in catalog database 36 and searched using the screen of Appendix VII. "Bulletin" refers to an additional vendor publication with detailed product information that may not be included in a vendor catalog. Searching for information contained in bulletins may be done by bulletin number, but only if bulletins have been made a part of catalog database 36. For purposes of this disclosure, bulletins when included in a catalog database are considered a type of catalog.

After the user has entered the field to be searched on the Search Screen, the user clicks on the "SEARCH" box near the bottom of the Search Screen. A Hit List 47 indicating all items from catalog database 36 that match the search field that was entered on the Search Screen then is generated.

Then, in a manner similar to that described previously, the user can scroll through the Hit List 47 and double click on the catalog page or panel desired. The user may then also view the detailed information located on the catalog page that was selected from the Hit List 47. During the search, the user may also add additional items to the Order List 48 being built in Shell 52 if desired, whether those additional items had been selected from the Hit List 47 or not.

The Order List that the user has built in Shell 52 is maintained on the Items Selected screen, shown in Appendix VI. From the Items Selected screen, the user can cancel the order by clicking on the "Cancel" box at the bottom of the screen, delete an item from the Order List 48 by moving the pointer bar to the item to be deleted and then clicking on the "Delete" box at the bottom of the screen, or delete all items by clicking on the "Delete All" box. The user can also view catalog text and images for a particular item by clicking on the "Description" box.

Once the user has completely built the Order List 48 within Shell 52 and TV/2 search program 50, he or she can transmit it to Fisher RIMS system 40. This is accomplished by clicking on the "Order" box at the bottom of the Items Selected screen to communicate the completed Order List 48 to Fisher RIMS system 40.

The user may have selected no items, one item or several items from the catalogs contained in catalog database 36 by using TV/2 search program 50. If no items have been selected, the original items that were entered on Requisition Item Table 46 of Requisition Management data screen 110 will remain on that screen and will continue to be processed by Fisher RIMS system 40. If one or several desired catalog items were selected in TV/2 search program 50, the first item selected will replace the original item on Requisition Item Table 46 of Requisition Management data screen 110. Addi-

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Means: Structure

<u>Lawson’s Proposed Definition</u>	<u>Lawson’s Proposed Definition</u>
<p><u>Part b.</u> selecting one or more items to be requisitioned; and</p>	<p>“Once Hit List 47 has been created by TV/2 search program 50, the user can view it and select particular ones of the located catalog items for Order List 48 that is being created in Shell 52, as shown in FIG. 1C.” (’172 patent, Detailed Description, 10:22-25 (emphasis added))</p> <div><pre>graph LR REQUI(44A) <--> 61 Shell[52] REQUI <--> 60 Shell REQUI <--> 46 RIT[Requisition Item Table] Shell <--> 48 OL[Order Lists] Shell <--> 47 HL[Hit Lists]</pre><p>The diagram illustrates the structure of the system. It features a central 'Shell' component (52) which is bidirectionally connected to a 'REQUI' component (44A), a 'Requisition Item Table' (46), an 'Order Lists' component (48), and a 'Hit Lists' component (47). Additionally, there is a bidirectional connection between 'REQUI' (44A) and 'Order Lists' (48) labeled 60, and a bidirectional connection between 'REQUI' (44A) and 'Shell' (52) labeled 61.</p></div> <p style="text-align: right;">FIG. 1C</p> <p>(’172 patent, Fig. 1C)</p> <p>“When in search program 50, particular items selected can be added to an Order List 48 pending in Shell 52 and search program 50. When the Ordering portion of catalog text is viewed (as in Appendix V), particular items can be selected so as to be added to the Order List 48 by double clicking on the highlighted catalog number (even if a different field was also highlighted as a result of a search of catalog database 36).” (’172 patent, Detailed Description, 11:32-39 (emphasis added))</p>

APPENDIX V		
<u>(FSC1106)Fisher Isotemp 800 Series Programmable Ovens</u>		
Model	818F	838F
Inside D × W × H	16 × 12 × 16 (41 × 30 × 41 cm)	18 × 18 × 20 (46 × 46 × 51 cm)
Shp. wt.	156 lb. (71 kg)	195 lb. (88 kg)
Electrical Requirements	230 V 50/60 Hz 11.3 Amps	230 V 50/60 Hz 19 Amps
Cat. No.	13-246-818F	13-246-838F
Each	3495.00	3995.00
Extra Shelves for 800 Series Ovens		
No-tip design. Move to any position in seconds. Full Depth Shelves: Chrome-Plated Steel		
Help Catalogs Search Order List Minimize Clear Prev Next Exit		
('172 patent, Appendix V)		

be requisitioned up to twenty desired catalog items contained in catalog database 36 may be sent to REQI program 44A and its associated Requisition Management data screen 110 of Fisher RIMS system 40. If a user chooses to terminate the sourcing process, ESRC program 70 would return to REQI program 44A and its associated Requisition Management data screen 110 without processing any of the records.

ESCP program 80 links with Shell 52 and TV/2 search program 50 via DDE LINK 90. Shell 52 and TV/2 search program 50 search in catalog database 36 for the item or items desired to be requisitioned that has or have been passed from ESRC program 70 to ESCP program 80. Catalog database 36 contains the following fields: vendor name, vendor number, vendor part (catalog) number, product description, list price, page number, quantity, unit, catalog text, and catalog images. Shell 52 and TV/2 search program 50 may, if desired, search the keyword field or any other field shown in Appendix VII. However, not all fields may appear on the monitor 22 of local computer 20, although they are stored in memory.

After the user has pressed the F11 key from Requisition Management data screen 110 and control has been passed from REQI program 44A to Shell 52 and TV/2 search program 50, monitor 22 of local computer 20 will show a footer bar representative of Shell 52 at all times that the user is in the TV/2 search program 50. The footer bar, which also includes appropriate icons, is used to make choices within Shell 52. A sample of the footer bar (without the icons) representing Shell 52 is shown at the base of Appendices III–VII. In the screens of Appendices III–VI, this footer bar is active to select functions. In the screen of Appendix VII, this footer bar is in the background and another footer bar is used to select functions.

If the user has marked an item on Requisition Management data screen 110 with the designation “S,” the entered data at least partially describing that item will be sent to Shell 52 and TV/2 search program 50A in the manner described above. TV/2 search program 50 will search catalog database 36 for all items that match the search field sent over from REQI program 44A and Requisition Management data screen 110. When a search is performed in Shell 52 and search program 50, a Hit List 47 is produced, as indicated in FIG. 1C. The user would see on monitor 22 of local computer 20 a Hit List 47 screen representing limited data about all matching catalog items that were located in catalog database 36 as a result of the search. A sample Hit List 47 produced from a search initiated when the entry “OVENS” is received as the description or keyword by search program 50 from Requisition Item Table 46 is shown in Appendix III. Similar Hit Lists 47 are produced when various searches are performed from the Search Input screen shown in Appendix VII. When a Hit List 47 is depicted on monitor 22, the underlying catalog text and pictures (in either partial or complete form) are typically collected in a memory location for rapid viewing, printing or other use.

When multiple catalogs are present in catalog database 36, search program 50 contains a function associated with the catalog symbol of the footer bar and screen window (not shown) for selecting catalogs to be searched. For example, the following choices might be available:

- 1. Fisher General Catalog 93–94;
- 2. Fairmont Supplies Catalog;
- 3. NIST Standards Catalog; and
- 4. Promega Biological Research Products Catalog.

Fairmont and NIST catalogs list products not in the Fisher General Catalog, but many of the products listed in the

Promega catalog are also listed in the Fisher General Catalog (identified by corresponding Fisher catalog numbers). If searching for a molecular biology product, the user would select the Fisher and Promega catalogs. TV/2 search program 50 would then concatenate those two catalogs to perform a keyword, catalog number or other subject search and generate a Hit List of pages (panels) from both catalogs where the searched-for items were found. Similarly, the user might select the Fisher and NIST catalogs when searching for quality control standards or might select the Fisher and Fairmont catalogs when searching for supplies.

If the search is initiated from requisition/purchasing program 40, for example from the Requisition Management data screen 110 of the Fisher RIMS system, then the catalogs searched can be determined by the information provided. If, for example, Promega is indicated as the desired requisition item vendor, interface 60 would direct TV/2 search program 50 to search the Fisher and Fairmont catalogs. If no catalog delimiting information is entered for the item desired to be requisitioned, interface 60 would be set up to search only the Fisher catalog or, alternatively, to search all catalogs in catalog database 36.

Once Hit List 47 has been created by TV/2 search program 50, the user can view it and select particular ones of the located catalog items for Order List 48 that is being created in Shell 52, as shown in FIG. 1C. For example, a search for “Eco RI,” a restriction enzyme, may have uncovered five entries in the Promega catalog (identified by Promega catalog numbers R6011, R6012, R6013, R6015 and R401) and five entries in the Fisher catalog (identified by Fisher catalog numbers PRR6011, PRR6012, PRR6013, PRR6015 and PRR4014). If the user selected PRR6012 from the Fisher catalog, Fisher catalog number PRR6012 would be added as an entry to the Items Selected screen, with VN0000001 (identifying the vendor as distributor Fisher) accompanying it in the Order List 48. If the user instead selected the item identified by catalog number R6012 from the Promega catalog, then Promega catalog number R6012 would be added as an entry to the Items Selected screen, with VN00005860 (identifying the vendor as Promega) accompanying it in the Order List. In either case, the information transmitted to REQI program 44A of Fisher RIMS system 40 would also include description, list price and other information taken from the catalog database from which the selection was made. When the resultant requisition is sourced, however (as described below), Distributor’s mainframe host computer 10 would recognize the entry for the item from vendor Promega’s catalog (R6012, 00005860) as corresponding to that same item available from Fisher’s catalog (PRR6012, 00000001). The system thus would transmit back the Customer’s contract price and availability for corresponding item PRR6012 as a type 03 (regular Distributor) product available from one of distributor’s inventory locations. A purchase order then would be generated for this corresponding Distributor item as further described below.

By contrast, an item selected from the Fairmont catalog would be transferred to Fisher RIMS system 40 with the vendor number for Fairmont, and would be recognized during inventory sourcing as either a type 07 product (that Distributor orders from Fairmont) or as a type 05 item (that customer orders from Fairmont as an Administrative Purchase). In either of these two cases, a purchase order would be generated for an item, corresponding to a desired catalog item, that is identified by the same Fairmont catalog number that was requisitioned.

After the desired item has been selected from the Hit List 47 by double clicking on that item TV/2 search program 50

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can be used to bring up for viewing on monitor 22, or printing on printer 26, images and text from the catalog page on which the item selected is located. For example, as shown in Appendix III, page 1106 of the Fisher catalog has been selected. If the user double clicks on highlighted page 1106, the text shown in Appendix IV (and related images, not shown) would appear on monitor 22. On the sample screen shown in Appendix IV, the item that appears on page 1106 of the Fisher catalog relates to Fisher Isotemp 800 Series Programmable Ovens. Conventional scroll bars appearing on the screen (not shown in Appendix IV) enable the user to scroll through additional catalog information (text and/or images) not yet displayed on the screen. An example of such additional textual information is depicted on the screen shown in Appendix V.

On the screen of Appendix V, the vendor distributor's catalog number ("Cat. No.") 13-246-818F is highlighted. The catalog number of an item normally appears in blue in a screen such as Appendix V. This blue lettering is used for catalog numbers, trademarks, footnotes and other entries for which database 36 contains additional information or cross-references (called hyperlinks). When a search is conducted and the catalog segments of the resultant hit list are reviewed, the text corresponding to the search parameter is highlighted in red. Thus, in Appendix V, catalog number 13-246-818F (identified in the search) appears in red, while catalog number 13-246-838F and the trademark Isotemp each appear in blue. A word, vendor part number or catalog number located by the search will appear red, even if that word or number did not have an associated hyperlink (and thus is not normally blue).

When in search program 50, particular items selected can be added to an Order List 48 pending in Shell 52 and search program 50. When the Ordering portion of catalog text is viewed (as in Appendix V), particular items can be selected so as to be added to the Order List 48 by double clicking on the highlighted catalog number (even if a different field was also highlighted as a result of a search of catalog database 36). The item is then added to an Order List 48 that is created in Shell 52 via a hypertext link. The items that are sent to the Order List 48 are collected and shown on the Items Selected screen of Shell 52. An example of an Items Selected screen of Shell 52 is shown in Appendix VI. The Items Selected screen depicts certain fields of Order List 48 that can be viewed and edited within search program 50. For example, Shell 52 permits the user via a pop-up window (not shown) to select units, e.g. pack or case, and quantity to be ordered, e.g. two packs. Alternatively, the data in these fields can default to one of the smallest unit and the units can be changed when the order is reviewed in REQI program 44A. Additional fields on the same items are also present in memory at this stage. Upon clicking on "Order" when the Items Selected screen (Appendix VI) is viewed, many or all of these fields on the items in the Order List are transmitted back to REQI program 44A (via the programs of interface 60 shown in FIG. 2) to be added to the pending Requisition Item Table 46. The sample Items Selected screen shown in Appendix VI includes the Isotemp Oven with catalog number 1324818F that was located as a result of the search for all items in catalog database 36 that match the part number 13246818F that was entered in the STOCK NBR field of REQI program 44A and its associated Requisition Management data screen 110 of Fisher RIMS system 40.

The following fields are transferred to Order List 48 created in TV/2 search program 50: Vendor name, vendor number, vendor part (catalog) number, product description, list price, page number, quantity, unit and catalog text.

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However, not all of these fields are viewed on the Items Selected screen.

If more than one item on Requisition Management data screen 110 had been marked with an "S," the process described above is repeated.

If the user desires to do additional searching in catalog database 36 that is not connected to catalog or other items that have been listed on Requisition Management data screen 110 of Fisher RIMS system 40, he or she can click the box on footer bar of Shell 52 that is labelled "Search." Then, a Search screen comes up on monitor 22 of local computer 20. An exemplary Search screen is shown in Appendix VII. In this screen, the usual footer bar is visible in the background, but is not active.

Using the Search screen, a user can search catalog database 36 by page, text description, part number (where the user has the further option to search by Fisher part number, for example if Fisher is to be the desired vendor), Vendor part number, vendor name (for vendors other than Fisher), or bulletin. Stock numbers specific to the customer can also be present in catalog database 36 and searched using the screen of Appendix VII. "Bulletin" refers to an additional vendor publication with detailed product information that may not be included in a vendor catalog. Searching for information contained in bulletins may be done by bulletin number, but only if bulletins have been made a part of catalog database 36. For purposes of this disclosure, bulletins when included in a catalog database are considered a type of catalog.

After the user has entered the field to be searched on the Search Screen, the user clicks on the "SEARCH" box near the bottom of the Search Screen. A Hit List 47 indicating all items from catalog database 36 that match the search field that was entered on the Search Screen then is generated. Then, in a manner similar to that described previously, the user can scroll through the Hit List 47 and double click on the catalog page or panel desired. The user may then also view the detailed information located on the catalog page that was selected from the Hit List 47. During the search, the user may also add additional items to the Order List 48 being built in Shell 52 if desired, whether those additional items had been selected from the Hit List 47 or not.

The Order List that the user has built in Shell 52 is maintained on the Items Selected screen, shown in Appendix VI. From the Items Selected screen, the user can cancel the order by clicking on the "Cancel" box at the bottom of the screen, delete an item from the Order List 48 by moving the pointer bar to the item to be deleted and then clicking on the "Delete" box at the bottom of the screen, or delete all items by clicking on the "Delete All" box. The user can also view catalog text and images for a particular item by clicking on the "Description" box.

Once the user has completely built the Order List 48 within Shell 52 and TV/2 search program 50, he or she can transmit it to Fisher RIMS system 40. This is accomplished by clicking on the "Order" box at the bottom of the Items Selected screen to communicate the completed Order List 48 to Fisher RIMS system 40.

The user may have selected no items, one item or several items from the catalogs contained in catalog database 36 by using TV/2 search program 50. If no items have been selected, the original items that were entered on Requisition Item Table 46 of Requisition Management data screen 110 will remain on that screen and will continue to be processed by Fisher RIMS system 40. If one or several desired catalog items were selected in TV/2 search program 50, the first item selected will replace the original item on Requisition Item Table 46 of Requisition Management data screen 110. Addi-

Tab T. “Means for generating an order list that includes at least one matching item selected by said means for searching”

Means: Structure

<u>Lawson’s Proposed Definition</u>	<u>Lawson’s Proposed Definition</u>
<p><u>Part c.</u> generating an order list (48) in shell (52 or 252) and catalog search program (50 or 250) containing data relating to selected items (e.g., vendor name, product description, list price).</p>	<p>“The item is then added to an Order List 48 that is created in Shell 52 via a hypertext link.” (’172 patent, Detailed Description, 11:37-40)</p> <p>“The following fields are transferred to Order List 48 created in TV/2 search program 50: Vendor name, vendor number, vendor part (catalog) number, product description, list price, page number, quantity, unit and catalog text.” (’172 patent, Detailed Description, 11:64-67)</p>

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can be used to bring up for viewing on monitor 22, or printing on printer 26, images and text from the catalog page on which the item selected is located. For example, as shown in Appendix III, page 1106 of the Fisher catalog has been selected. If the user double clicks on highlighted page 1106, the text shown in Appendix IV (and related images, not shown) would appear on monitor 22. On the sample screen shown in Appendix IV, the item that appears on page 1106 of the Fisher catalog relates to Fisher Isotemp 800 Series Programmable Ovens. Conventional scroll bars appearing on the screen (not shown in Appendix IV) enable the user to scroll through additional catalog information (text and/or images) not yet displayed on the screen. An example of such additional textual information is depicted on the screen shown in Appendix V.

On the screen of Appendix V, the vendor distributor's catalog number ("Cat. No.") 13-246-818F is highlighted. The catalog number of an item normally appears in blue in a screen such as Appendix V. This blue lettering is used for catalog numbers, trademarks, footnotes and other entries for which database 36 contains additional information or cross-references (called hyperlinks). When a search is conducted and the catalog segments of the resultant hit list are reviewed, the text corresponding to the search parameter is highlighted in red. Thus, in Appendix V, catalog number 13-246-818F (identified in the search) appears in red, while catalog number 13-246-838F and the trademark Isotemp each appear in blue. A word, vendor part number or catalog number located by the search will appear red, even if that word or number did not have an associated hyperlink (and thus is not normally blue).

When in search program 50, particular items selected can be added to an Order List 48 pending in Shell 52 and search program 50. When the Ordering portion of catalog text is viewed (as in Appendix V), particular items can be selected so as to be added to the Order List 48 by double clicking on the highlighted catalog number (even if a different field was also highlighted as a result of a search of catalog database 36). The item is then added to an Order List 48 that is created in Shell 52 via a hypertext link. The items that are sent to the Order List 48 are collected and shown on the Items Selected screen of Shell 52. An example of an Items Selected screen of Shell 52 is shown in Appendix VI. The Items Selected screen depicts certain fields of Order List 48 that can be viewed and edited within search program 50. For example, Shell 52 permits the user via a pop-up window (not shown) to select units, e.g. pack or case, and quantity to be ordered, e.g. two packs. Alternatively, the data in these fields can default to one of the smallest unit and the units can be changed when the order is reviewed in REQI program 44A. Additional fields on the same items are also present in memory at this stage. Upon clicking on "Order" when the Items Selected screen (Appendix VI) is viewed, many or all of these fields on the items in the Order List are transmitted back to REQI program 44A (via the programs of interface 60 shown in FIG. 2) to be added to the pending Requisition Item Table 46. The sample Items Selected screen shown in Appendix VI includes the Isotemp Oven with catalog number 1324818F that was located as a result of the search for all items in catalog database 36 that match the part number 13246818F that was entered in the STOCK NBR field of REQI program 44A and its associated Requisition Management data screen 110 of Fisher RIMS system 40.

The following fields are transferred to Order List 48 created in TV/2 search program 50: Vendor name, vendor number, vendor part (catalog) number, product description, list price, page number, quantity, unit and catalog text.

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However, not all of these fields are viewed on the Items Selected screen.

If more than one item on Requisition Management data screen 110 had been marked with an "S," the process described above is repeated.

If the user desires to do additional searching in catalog database 36 that is not connected to catalog or other items that have been listed on Requisition Management data screen 110 of Fisher RIMS system 40, he or she can click the box on footer bar of Shell 52 that is labelled "Search." Then, a Search screen comes up on monitor 22 of local computer 20. An exemplary Search screen is shown in Appendix VII. In this screen, the usual footer bar is visible in the background, but is not active.

Using the Search screen, a user can search catalog database 36 by page, text description, part number (where the user has the further option to search by Fisher part number, for example if Fisher is to be the desired vendor), Vendor part number, vendor name (for vendors other than Fisher), or bulletin. Stock numbers specific to the customer can also be present in catalog database 36 and searched using the screen of Appendix VII. "Bulletin" refers to an additional vendor publication with detailed product information that may not be included in a vendor catalog. Searching for information contained in bulletins may be done by bulletin number, but only if bulletins have been made a part of catalog database 36. For purposes of this disclosure, bulletins when included in a catalog database are considered a type of catalog.

After the user has entered the field to be searched on the Search Screen, the user clicks on the "SEARCH" box near the bottom of the Search Screen. A Hit List 47 indicating all items from catalog database 36 that match the search field that was entered on the Search Screen then is generated. Then, in a manner similar to that described previously, the user can scroll through the Hit List 47 and double click on the catalog page or panel desired. The user may then also view the detailed information located on the catalog page that was selected from the Hit List 47. During the search, the user may also add additional items to the Order List 48 being built in Shell 52 if desired, whether those additional items had been selected from the Hit List 47 or not.

The Order List that the user has built in Shell 52 is maintained on the Items Selected screen, shown in Appendix VI. From the Items Selected screen, the user can cancel the order by clicking on the "Cancel" box at the bottom of the screen, delete an item from the Order List 48 by moving the pointer bar to the item to be deleted and then clicking on the "Delete" box at the bottom of the screen, or delete all items by clicking on the "Delete All" box. The user can also view catalog text and images for a particular item by clicking on the "Description" box.

Once the user has completely built the Order List 48 within Shell 52 and TV/2 search program 50, he or she can transmit it to Fisher RIMS system 40. This is accomplished by clicking on the "Order" box at the bottom of the Items Selected screen to communicate the completed Order List 48 to Fisher RIMS system 40.

The user may have selected no items, one item or several items from the catalogs contained in catalog database 36 by using TV/2 search program 50. If no items have been selected, the original items that were entered on Requisition Item Table 46 of Requisition Management data screen 110 will remain on that screen and will continue to be processed by Fisher RIMS system 40. If one or several desired catalog items were selected in TV/2 search program 50, the first item selected will replace the original item on Requisition Item Table 46 of Requisition Management data screen 110. Addi-